

ABSTRACT

In a home bus system in which a multiplicity of networks each having a multiplicity of appliances connected thereto are connected one another, information is easily exchanged between appliances over different networks.

5 An address configuration that is processed in application software and communication middleware has a network ID and a network appliance ID. On each network, there is provided a particular router having information about all the connections of other networks than the each network. Under this configuration, an appliance transmits a message directed to another
10 network, only to a particular router and the particular router establishes an appropriate route for transmission, as considering the actual states of the networks.